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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/014600

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G02F1/025

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G02F1/025

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 11-133367 A (Oki Electric Industry Co., Ltd.), 21 May, 1999 (21.05.99), Fig. 1 & US 6198853 B1	1-5, 7-14 6
Y A	JP 3-231220 A (Nippon Telegraph And Telephone Corp.), 15 October, 1991 (15.10.91), Page 2, lower right column, lines 6 to 7 (Family: none)	1-5, 7-14 6
Y	JP 8-335745 A (Fujitsu Ltd.), 17 December, 1996 (17.12.96), Par No. [0012] (Family: none)	5

 Further documents are listed in the continuation of Box C. See patent family annex.

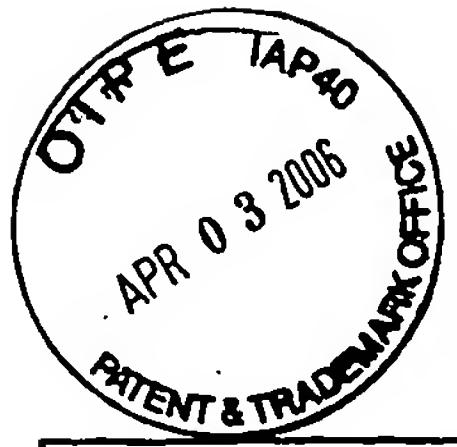
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"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
05 January, 2005 (05.01.05)Date of mailing of the international search report
25 January, 2005 (25.01.05)Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 5-75212 A (Nippon Telegraph And Telephone Corp.), 26 March, 1993 (26.03.93), Par No. [0036] (Family: none)	8-11
Y	JP 7-50403 A (Nippon Telegraph And Telephone Corp.), 21 February, 1995 (21.02.95), Par No. [0018] (Family: none)	9
Y	JP 5-307200 A (Nippon Telegraph And Telephone Corp.), 19 November, 1993 (19.11.93), Par No. [0006] (Family: none)	12-14